

## Abstract

The invention relates to a method for producing precision investment-cast NE metal alloy members, especially for use in power unit technology. The inventive method is characterized by using a rotation casting method, whereby the outer shell of the casting molds (22) to be produced are fed via an inert pouring spout (14) which is fluidically optimized vis-à-vis the used alloys. These casting molds are likewise fluidically optimized at the sprue positions (19) and are arranged on a rotatably mounted casting device (11) in a manner as to be spatially adjustable. The casting molds can be inductively (30) heated during the casting process for the purpose of temperature adjustment. The components of the device are mounted in such a manner as to allow for a completely homogeneous filling of the casting molds by virtue of the Coriolis forces of the centrifugal forces to which the melt is subjected so that the cast metal is free from inclusions.

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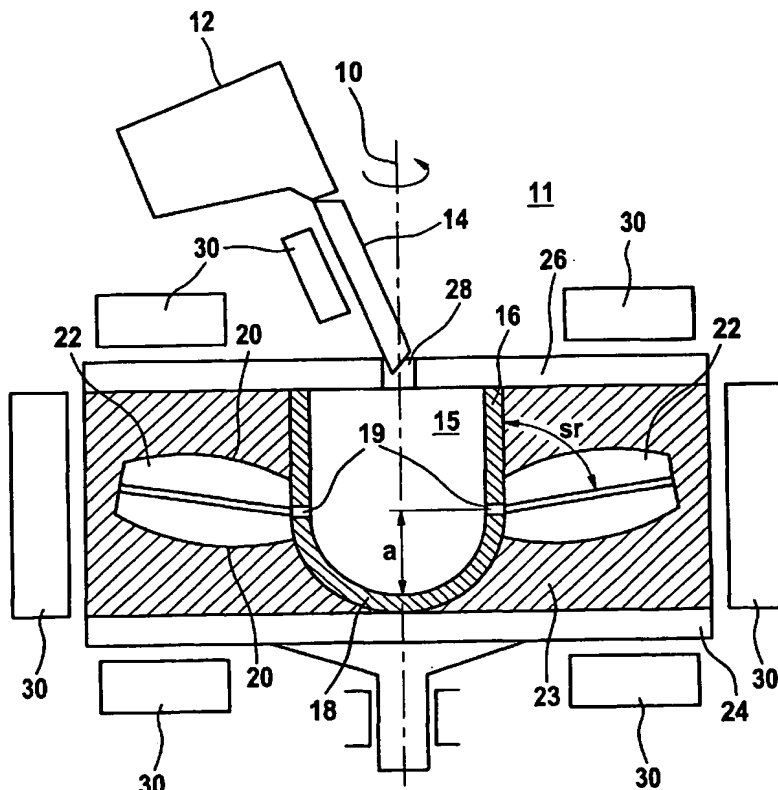
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(54) Title: METHOD AND DEVICE FOR PRODUCING PRECISION INVESTMENT-CAST NE METAL ALLOY MEMBERS AND NE METAL ALLOYS FOR CARRYING OUT SAID METHOD

(54) Bezeichnung: VERFAHREN UND VORRICHTUNG ZUR MASSGENAUEN FEINGUSSHERSTELLUNG VON BAUTEILEN AUS NE-METALLLEGIERUNGEN SOWIE NE-METALLLEGIERUNGEN ZUR DURCHFÜHRUNG DES VERFAHRENS



(57) Abstract: The invention relates to a method for producing precision investment-cast NE metal alloy members, especially for use in power unit technology. The inventive method is characterized by using a rotation casting method, whereby the outer shell of the casting molds (22) to be produced are fed via an inert pouring spout (14) which is fluidically optimized vis-à-vis the used alloys. These casting molds are likewise fluidically optimized at the sprue positions (19) and are arranged on a rotatably mounted casting device (11) in a manner as to be spatially adjustable. The casting molds can be inductively (30) heated during the casting process for the purpose of temperature adjustment. The components of the device are mounted in such a manner as to allow for a completely homogeneous filling of the casting molds by virtue of the Coriolis forces of the centrifugal forces to which the melt is subjected so that the cast metal is free from inclusions.

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